

DAFTAR PUSTAKA

- Araujo, R.N., Costa, F.S., Fernanda, S.C., Gontijo, N.F., Gonçalves, T.C.M., Pereira, M.H., 2009. The feeding process of *Cimex lectularius* (Linnaeus 1758) and *Cimex hemipterus* (Fabricius 1803) on different bloodmeal sources. *Journal of Insect Physiology*. 55: 1151–1157
- Arif, I. A., Bakir, M. A., Khan, H. A., Ahamed, A., Al Farhan, A. H., Al Homaidan, A. A. A., Al Sadoon, M., Bahkali, A. H., and Shobrak, M., 2010. A Simple Method for DNA Extraction from Mature Date Palm Leaves: Impact of Sand Grinding and Composition of Lysis Buffer. *Int. J. Mol. Sci*. 11: 3149-3157
- Baldwin, B.G., Sanderson, M.J., Porter, J.M., Wojciechowski, M.F., Campbell, C.S., Donoghue, M.J., 1995. The ITS region of nuclear ribosomal DNA: a valuable source of evidence on angiosperm phylogeny. *Annals of the Missouri Botanical Garden*. 82: 247–277.
- Balvin, O., Vilimova, J., and Lukas, K., 2013, Batbugs (*Cimex pipistrelli* group, Heteroptera: Cimicidae) are morphologically, but not genetically differentiated among bat hosts. *Journal Zoological Systematic Evolution Research*. 51(4): pp. 287—295.
- Campbell, B. E., Koehler, P. G. , Lyle J. B., and Rebecca W. B., 2016. Recent Documentation of the Tropical Bed Bug (Hemiptera: Cimicidae) in Florida Since the Common Bed Bug Resurgence. *Florida Entomologist*. Florida Entomological Society. 99(3):549-551
- Cannet, A., Akhoundi, M., Berenger, J. M., Michel, G., Marty, P., and Delaunay, P., 2015. A review of data on laboratory colonies of bed bugs (Cimicidae), an insect of emerging medical relevance. *Parasite* (22): 21. DOI: 10.1051/parasite/2015021
- Dang, K., Doggett, S. L., G. V. Singham, and Chow-Yang L., 2017. Review : Insecticide resistance and resistance mechanisms in bed bugs, *Cimex* spp. (Hemiptera: Cimicidae). *Parasites & Vectors*. 10: p.318
- Delaunay, P., Ve ´ronique, B., Del Giudice, P., Levy-Bencheton, A., Chosidow, O., Marty, P., and Brouqui, P., 2011. Bedbugs and Infectious Diseases. *Clinical Infectious Diseases*. Oxford University Press. 52(2): 200–210. DOI: 10.1093/cid/ciq102
- Delaunay, P., and Pharm, D., 2012. Human Travel and Traveling Bedbugs_Human Travel and Traveling Bedbugs. *Journal of Travel Medicine*, 19(6): 373–379
- Davis, H., Whitworth, R.J., Cloyd, R.A., and Otte, C., 2010. *Bed Bug*. Kansas State University Agricultural Experiment Station and Cooperative Extension Service. Kansas State University

- Doggett, S. L., Miller, D. M., and Lee, Chow-Yang., 2018. *Advances in Biology and Management of Modern Bed Bugs*. John Wiley & Sons. USA. 153-155; 376-377
- Elford, S.L., dan Stainsfield, W.D., 2007. *Genetika*. Damarintyas, penerjemah. Jakarta (ID): Erlangga.
- Fischer, E. R., Hansen, B. T., Nair, V., Hoyt, F.H., and Dorward, D. W., 2012. Scanning Electron Microscopy. *Current Protocol Microbiology* (5): 1-76 doi:10.1002/9780471729259.mc02b02s25
- Gapon, D.A., 2016. First records of the tropical bed bug *Cimex hemipterus* (Heteroptera: Cimicidae) from Russia. *Zoosystematica Rossica*, 25(2): pp.239–242.
- Georgi, J. R., 1980. *Parasitology for Veterinarians* Third Edition. W. Saunders Company. USA. pp.38-40.
- Giorda, F., Guardone, F., Mancini, M., Accorsi, A., Macchioni, F. and Mignone, W., 2013. Cases of bed bug (*Cimex lectularius*) infestations in Northwest Italy. *Veterinaria Italiana* 2013, 49 (4), 335-340. doi: 10.12834/VetIt.1306.03
- Goddard, J. and deShazo, R., 2009. Bed Bugs (*Cimex lectularius*) and Clinical Consequences of Their Bites. *Journal American Medical Association*. 301(4): 1358-1366.
- Harlan H.J., Faulde M.K., and Baumann G.J., 2008. *Bedbugs In Public Health Significance of Urban Pests*. X Bonnefoy, H Kampen and K Sweeney (eds.). World Health Organization. Geneva, Switzerland. pp.131-153.
- Hebert, P. D. N., Cywinska, A., Ball, S. L., and deWaard, J. R., 2003. Biological identifications through DNA barcodes. *Proceedings of the Royal Society B: Biological Sciences*, 270(1512): pp.313–321. <https://doi.org/10.1098/rspb.2002.2218>
- Henry, T.J., and Froeschner, R. C., eds. 1988. *Catalog of the Heteroptera, or True Bugs, of Canada and the Continental of United State*. E.J. Brill. New York, USA. XIX: p.958.
- Hidayat, T., Priyandoko, D., Yunita, P.W., and Karina, D.I., 2016, Molecular Phylogenetic Screening of *Withania somnifera* Relative From Indonesia Based on Internal Transcribed Spacer Region. *HAYATI Journal of Bioscience*. XXX: pp.1-4. <http://dx.doi.org/10.1016/j.hjb.2016.02.002>
- Hinson, K. R., 2014. *Biology and Control of the Bed Bug Cimex lectularius l..* Dissertation. Graduate School of Clemson University.

- Hornok, S., Szoke, K., Sandor A. B., Attila D. S., Kontschán, J., Tu V. T., Ali Halajian, Takacs, N., Tamas G., and Peter E.. 2017. Phylogenetic Analyses of Bat-Associated Bugs (Hemiptera: Cimicidae: Simicinae and Cacodminae) Indicate Two New Species Close to *Cimex lectularius*. *Parasites & Vectors*. 10: 439.
- How, Yee-Fatt and Lee, Chow-Yang., 2010. Effects of Life Stages and Feeding Regimes on Active Movement Behavior of the Tropical Bed Bug, *Cimex hemipterus* (Hemiptera: Cimicidae). *Journal Medical Entomology*. 47(3): pp.305-312. DOI: 10.1603/ME10004
- Hubert, N., Hanner, R., Holm, E., Mandrak, N. E., Taylor, E., Burrige, M., Bernatchez, L., 2008. Identifying Canadian Freshwater Fishes through DNA Barcodes. *PLoS ONE*. 3(6): e2490. <https://doi.org/10.1371/journal.pone.0002490>
- Hwang, S. W., Svoboda, T.J., De Jong, I.J., Kabasele, K. J., and Gogosis, E., 2005, Bed Bug Infestations in an Urban Environment. *Emerging Infectious Diseases*. 11(4) : pp. 533-538
- Iborra, F. J., Kimura, H., and Cook, P.R., 2004, The Functional Organization of Mitochondrial Genome in Human Cells. *BioMed Central Biology*. 2: 9. Pp 1-14. 1741-7007/2/9
- Jorgensen, E. M. and Garber, R. L., 1987. Function and misfunction of the two promoters of the *Drosophila* Antennapedia gene. *GENES & DEVELOPMENT*. 1:544-555
- Kalangi, G., Tulung, M., Salaki, C., and Mandey, L., 2017. Morphological characteristics of bedbugs (*Cimex* sp.) from Manado and Sitaro north Sulawesi, Indonesia. *International Journal of Entomology Research*.
- Kambhampati, S., and Smith, P. T., 1995. PCR primers for the amplification of four insect mitochondrial gene fragments. *Insect Molecular Biology*, 4(4):, 233-236
- Karunaratne, S.H.P.P, Damayanthi, B.T., Fareena, M. H. J., imbuldeniya, V., and Hemingway, J. 2007. Insecticide Resistance in the Tropical Bedbug *Cimex hemipterus*. *Pestic Biochem Physiol*. 88: 102-107
- Khan, H. R., and Rahman, M., 2012. Morphology and Biology of the Bedbug, *Cimex Hemipterus* (Hemiptera: Cimicidae) in the Laboratory. *Dhaka University Journal Biological Science*. 21(2): 125-130.
- Kumar, S., Stecher, G., Li, M., Knyaz, S., and Tamura, K., 2018. MEGAX: Molecular Evolutionary Genetics Analysis across Computing Platform. *Mol. Biol. Evol.* 35(6): 1547-1549

- Lai, O., Ho, D., Sharon G., and Jagdeo, J., 2016. Bed bugs and possible transmission of human pathogens: a systematic review. *Arch Dermatol Res.* 308: pp. 531–538. DOI 10.1007/s00403-016-1661-8
- Li, M., Tian, Y., Zhao, Y., and Bu, B., 2012. Higher Level Phylogeny and the First Divergence Time Estimation of Heteroptera (Insecta: Hemiptera) Based on Multiple Genes. *PLoS ONE*, 7(2): e32152. doi:10.1371/journal.pone.0032152
- Linder, C.R., Moore, L. A., and Jackson, R. B., 2000. A universal molecular method for identifying underground plant parts to species. *Molecular Ecology*. 9: 1549–1559
- Morrow, E.H., and Arnqvist, G., 2003. Costly traumatic insemination and a female counter-adaptation in bed bugs. *Proc. R. Soc. Lond. B* (2003) 270, 2377–2381
- Mumcuoglu, K. Y., 2008. A Case of Imported Bedbug (*Cimex lectularius*) Infestation in Israel. *IMAJ*. 10:388–389
- Muthiadin, C., Rasdianah A., Isna, dan Annisa Z. D., 2018, DNA Mitokondria Untuk Identifikasi Ikan yang Kaya Spesies. *Prosiding Seminar Nasional Megabiodiversitas Indonesia*. hal: 51-53. ISBN: 978-602-72245-3-7
- Oduola, A. O., Omotayo, A. I., Adelaja, O. J., and Obembe, A. 2017. Bedbug (*Cimex lectularius*) Infestation and its Control Practices in two Selected Settlements in Ilorin, Kwara State, Nigeria. *Animal Research International*. 14(3): 2818 – 2825
- Panagiotakopulu, E. and Buckland, P., 1999. *Cimex lectularius* L., the common bed bug from Pharaonic Egypt. *Antiquity*. 73, 908-911
- Pires, M. S., Luz, R., Hermes, M. P., Bezerra da Silva, C., Vitari, G.L.V., da Costa, R. L., Graciosa, M. G., Santos, H. A., Faccini, J. L. H., and Massard, C. L., 2018. Occurrences of *Ornithocoris toledo* (Cimicidae) on a free-range chicken farm in the state of Rio de Janeiro, Brazil. *Brazilian Journal Veterinary Parasitol.*, Jaboticabal. (27): 3. 396-400.
- Polanco, A. M., Carlyle C. B., and Miller, D. M. 2011. Article : Population Growth Potential of the Bed Bug, *Cimex lectularius* L.: A Life Table Analysis. *Insects*. 2: 173-185.
- Pratt, H. D., and Stojanovich, C., 1967. Bugs : Pictorial Key to Some Species that May Bite Man. *The Sucking Lice of North America*. 94
- Rahim, A. H., Majid, A. H. Ab., and Abu H. A., 2015, Laboratory Rearing of *Cimex hemipterus* F. (Hemiptera : Cimicidae) Feeding on Different Types of Human Blood Compositions by Using Modified Artificial Feeding System. *Asian Pacific Journal of Tropical Disease*. 5(12) : 930-934

- Reidei, G.P., 2008. *Encyclopedia of Genetics, Genomics, Proteomics, and Informatics* (vol.2). Springer. Jerman. ISBN 978-1-4020-6755-6
- Reinhardt, K. and Siva-Jothy, M. T. 2007. Biology of the Bed Bugs (Cimicidae). *The Annual Review of Entomology*. 52:351–74. doi: 10.1146/annurev.ento.52.040306.133913
- Reinhardt, K., Isaac, D., and Naylor, R. 2010. Estimating the feeding rate of the bedbug *Cimex lectularius* in an infested room: an inexpensive method and a case study. *Medical and Veterinary Entomology*. 24, 46–54
- Reinhardt, K., Anthes, N. and Rolanda L. 2015. Copulatory Wounding and Traumatic Insemination. *Cold Spring Harbor Prespective in Biology*. (5): 7. A017582. 5-11
- Salazar, R., Castillo-Neyra, R., Aaron W. T., Borrini-Mayori, K., Ce 'sar Na 'quira, and Levy, M. Z. 2015. Bed Bugs (*Cimex lectularius*) as Vectors of *Trypanosoma cruzi*. *The American Journal Society of Tropical Medicine and Hygiene*. 92(2): pp.331–335. doi:10.4269/ajtmh.14-0483
- Septiane, E. 2015. Studi Infestasi dan Resistensi Kutu Busuk, *Cimex hemipterus* (Hemiptera: Cimicidae) Terhadap Tiga Golongan Insektisida di Bogor. Institut Pertanian Bogor. 1-24
- Sirisena, U.G.A.I., G.W. Watson, K.S. Hemachandra O. Sage and H.N.P. Wijayagunasekara. 2015. Scanning Electron Microscopy of Six Selected Mealybug (Hemiptera: Pseudococcidae) Species of Sri Lanka. *Tropical Agricultural Research*. 26 (2): pp. 237 – 247
- Sumanto, D., dan Alhamidy, F., 2010, Survei Keberadaan Serangga *Cimex Sp* Pada Lingkungan Rumah Tangga Dikaitkan Dengan Kadar Hemoglobin Penghuni Rumah Di Desa Gebang Sukodono Sragen, *Prosiding Seminar Nasional Unimus*.
- Susser, S.R., Perron, S., Fournier, M. Jacques, L., Denis, G., Tessier, F., and Roberge, P. 2012. Mental health effects from urban bed bug infestation (*Cimex lectularius* L.): a crosssectional study. *BMJ Open*. 1-5. doi:10.1136/bmjopen-2012-000838
- Szalanski, A. L., Austin, J. W., Jackie A. M., C. Dayton Steelman, and Gold, R. E. Gold. 2008. Mitochondrial and Ribosomal Internal Transcribed Spacer 1 Diversity of *Cimex lectularius* (Hemiptera: Cimicidae). *Journal of Medical Entomology*. 45(2): 229-236. Doi: 0022- 585/08/0229\$04. 00/0
- Tamura, K., Peterson, D., Peterson, N., Stecher, G., Nei, M. and Kumar, S., 2011. MEGA5: Molecular evolutionary genetics analysis using maximum likelihood, evolutionary distance, and maximum parsimony methods. *Mol. Biol. Evol.* **28**: 2731–2739. <https://doi.org/10.1093/molbev/msr121>

- Tawatsin, A., Lorlerthum, K., Phumee, A., Thavara, A., Boon-Long, J., Boonserm, R., and Siriyasatien, P.. 2013. Discrimination between Tropical Bed Bug *Cimex hemipterus* and Common Bed Bug *Cimex lectularius* (Hemiptera: Cimicidae) by PCR-RFLP . *Thai J Vet Med.* 43(3): 421-427.
- Usinger, R. L. 1966. Monograph of Cimicidae (Hemiptera-Heteroptera). Entomological Society of America, College Park, Maryland
- Veikkolainen, V., Vesterinen, E. J., Lilley, T. M., and Pulliainen, A. T. 2014. Bats as Reservoir Hosts of Human Bacterial Pathogen, *Bartonella mayotimonensis*. *Emerging Infectious Diseases.* 20(6): 960.
- Zorrilla-Vaca, A., Silva-Medina, M. M., and Escandón-Vargas, K. 2015. Bedbugs, *Cimex* spp.: their current world resurgence and healthcare impact. *Asian Pacific Journal of Tropical Disease.* 5(5): 342-352. DOI: 10.1016/S2222-1808(14)60795-7.

Lampiran 1. Lokasi sampling kutu kasur di Yogyakarta dan Jawa Tengah

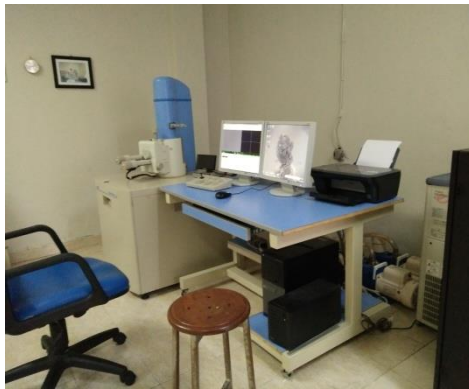


Proses pengambilan sampel

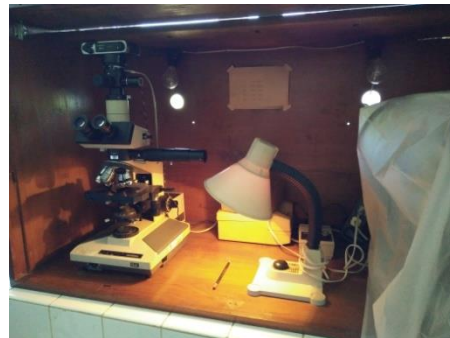
Lampiran 2. Alat dan Bahan sampling kutu kasur



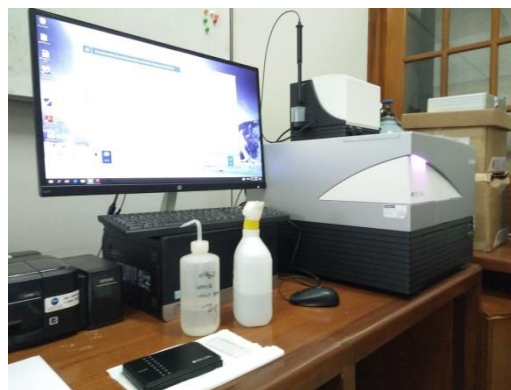
Alat Sputter chamber preparasi SEM



Scanning Electron Microscope



Mikroskop



Nanodrop

Lampiran 3. Sampel kutu kasur



Kutu kasur dari Bantul



Kutu kasur dari Kotamadya Yogyakarta



Kutu kasur dari Solo



Kutu kasur dari Pati